

Title (en)

HIGH VOLTAGE PENETRATOR WITH ELECTRIC FIELD CONTROL

Title (de)

HOCHSPANNUNGSPENETRATOR MIT STEUERUNG EINES ELEKTRISCHEN FELDES

Title (fr)

PÉNÉTRATEUR HAUTE TENSION À COMMANDE DE CHAMP ÉLECTRIQUE

Publication

**EP 3189569 A1 20170712 (EN)**

Application

**EP 15756163 A 20150827**

Priority

- NO 20141069 A 20140901
- EP 2015069684 W 20150827

Abstract (en)

[origin: WO2016034499A1] An electrical penetrator assembly is shown, configured to feed electrical voltage and current through a wall separating a first volume and a second volume, which may have different pressure and/or may be filled with different fluids. The connector comprises a wall or partition (10; 10') having a through opening. An electrical conductor (7) surrounded by a tubular insulator body (8) passes the opening through the wall. A conductive or semi-conductive coating (18;19) is arranged on the exterior of the insulator body, the coating surrounding the insulator body for a portion of its length, the coating in electrical contact with the wall, wherein the coated portion of the insulator body is shaped to displace the electric field around the conductor away from the wall and reduce the electric field strength around the insulator body by increasing the electric field strength inside the insulator body.

IPC 8 full level

**H02G 15/013** (2006.01); **H02G 15/06** (2006.01)

CPC (source: EP NO US)

**H01B 17/26** (2013.01 - NO); **H02G 3/22** (2013.01 - EP US); **H02G 15/013** (2013.01 - EP US); **H02G 15/064** (2013.01 - EP US); **H02G 15/064** (2013.01 - NO); **H02G 15/103** (2013.01 - NO); **H02G 15/184** (2013.01 - NO)

Citation (search report)

See references of WO 2016034499A1

Citation (examination)

WO 9709762 A1 19970313 - ASEA BROWN BOVERI [SE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2016034499 A1 20160310**; EP 3189569 A1 20170712; NO 20141069 A1 20160302; NO 337837 B1 20160627; US 10298005 B2 20190521; US 2017294770 A1 20171012

DOCDB simple family (application)

**EP 2015069684 W 20150827**; EP 15756163 A 20150827; NO 20141069 A 20140901; US 201515507766 A 20150827